

Appl No. 10/767,668
Amdt. dated June 29, 2006
Reply to Office Action of Apr. 5, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of claims:

Claim 1 (cancel)

Claim 2 (currently amended): The yarn of ~~claim 1~~ claim 24 wherein said polymeric material is selected from the group consisting of polyester, polyamide, polypropylene, polyethylene, PPS and PEEK.

Claim 3-9 (cancel)

Claim 10 (currently amended): The conductive yarn of ~~claim 1~~ claim 24 wherein said primary component comprises a plurality of elongated filaments.

Claim 11-23 (canceled)

Claim 24 (new): A multi-component conductive yarn comprising a primary component and a secondary component:

said primary component consists of at least one set elongated filament having defined reduced elongation properties formed of a single polymeric material;

said secondary component consists solely of a blend of said single polymeric material unset and carbon nanotubes, said second component being bonded with said set elongated filament forming said secondary component along its length; wherein,

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said carbon nanotubes constitute between .5% and 5% of the mass of said secondary component of the multi-component yarn and between .5% and 15% of the mass of said multi-component yarn.

Claim 25 (new): The yarn of claim 24 wherein said secondary component comprises an outer sheath bonded with, surrounding and extending along the length of said primary component.

Claim 26 (new): A multi-component yarn for conducting electricity comprising a primary component and a secondary component:

said primary component consists of at least one elongated filament formed of a single polymeric material;

said secondary component comprises an elongated filament consisting solely of a blend of said single polymeric material and carbon nanotubes said filament of said secondary component being bonded with said filament of said primary component along its length; and,

said carbon nanotubes comprising between .5% and 15% of the mass of the multi-component yarn and between 2% and 5% of the mass of the secondary component.